

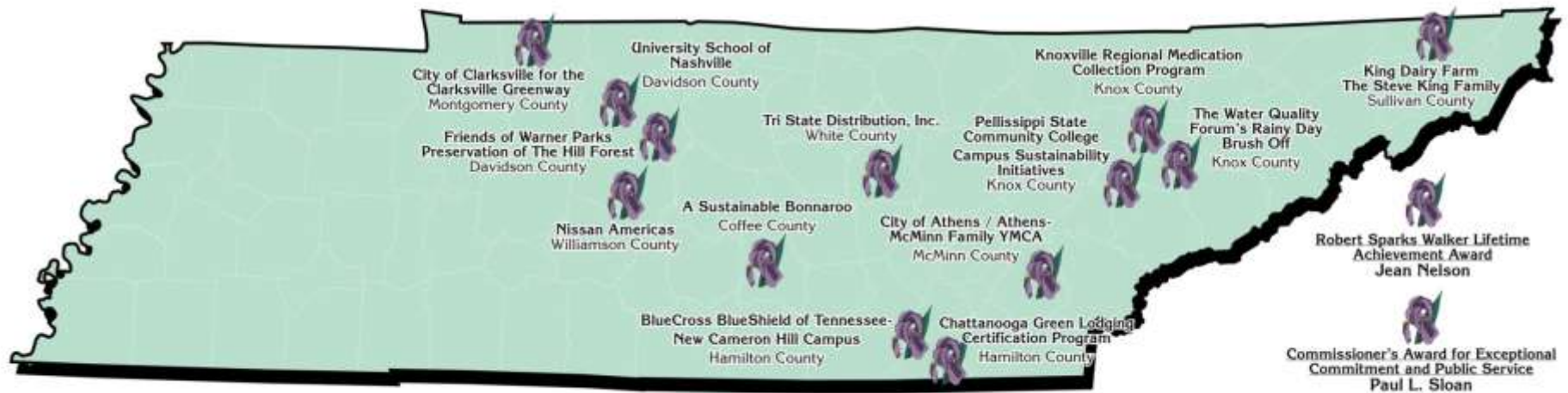


ambition innovation education

cooperation achievement commitment

Governor's Environmental Stewardship Awards

2010 Governor's Award Winners



Excellence in Agriculture and Forestry

*King Dairy Farm
The Steve King Family*



*(l-r) TDEC Commissioner Jim Fyke; John King; Stephen King,
Owner/Operator; Teresa King; TDEC Deputy Commissioner Paul Sloan*



The King Dairy Farm has been in existence since 1774. Today, the farm has more than 180 cows, which are milked twice daily and average over 20,000 pounds of milk per cow each year. Almost all of the feed for the herd is produced on the farm and they incorporate conservation best management practices into their crop production. Corn silage yields are exceptionally high because they practice conservation tillage to reduce soil erosion. Because 100 percent of the farm's confined animal and milking parlor wastes are stored and kept out of the nearby stream and lake, the farm is able to use the waste as fertilizer to help reduce the amount of nutrients purchased. A 2,600-foot underground pipeline was also installed to deliver this valuable waste to cropland through an irrigation system. The farm also practices crop rotation and winter cover to control runoff, soil erosion and to improve soil. The farm installed a new energy efficient, variable-speed vacuum pump for its milking parlor and continually makes environmental improvements each year.



KING FARMS



E. Lynn King, Piney Flats, TN



CONSERVATION FARM

TAKE
PRIDE IN
AMERICA



2013

conservation

farm

2013

conservation

farm

2013

conservation

farm

2013

conservation

farm

2013

conservation

farm

2013

conservation

farm

2013

conservation

farm

2013

conservation

farm

2013

conservation

farm

2013

conservation

farm

2013



The herd averages 20,000 lbs of milk per cow per year.



20,000 lbs x 190 cows
3,800,000 lbs milk per year
448,000 gallons milk every year



Feed storage

*Silage storage above
mixing and
distributing feeds uses less
equipment time and
gasoline.*



*Manure and water are
applied to the row
crops.*



Manure storage

A gravity flow watering system decreases the use of electrical energy on the farm.



Excellence in Aquatic Resource Preservation

*City of Athens
and
Athens-McMinn Family YMCA*



*back row (l-r) Lee Montgomery,
Executive Director of Athens-
McMinn YMCA; Mitchell
Moore, Athens City Manager;
TDEC Commissioner James
Fyke; Shawn Lindsey, Public
Works Director; TDEC Deputy
Commissioner Paul Sloan.
front row (l-r) Jonah McEwan,
Eagle Scout Troop 617; Linda
Harris, TVA Senior Watershed
Representative*



With two streams listed on the state's impaired waters list, the city of Athens teamed up with the local YMCA to take a plan for a traditional parking lot and build an all-green parking area, showcasing various green technologies. Located on city property behind City Hall, the lot uses pervious concrete and pavers, geoblock green paving and rain gardens – all focal points combined for the first time at one location and using technologies that have approximately a 50-year life, as opposed to asphalt with a 20-year life. The rain gardens allow the rain gradient to percolate through six inches of stone underneath the entire lot and clay berms help keep water in the garden's sub-base longer. The city of Athens supplied the labor and equipment, saving a total of \$60,000, and utilized a local Eagle Scout candidate to help build an educational kiosk with the first “green” roof in the county.















Excellence in Building Green

*BlueCross BlueShield of Tennessee
New Cameron Hill Campus*

*(l-r) TDEC
Commissioner James
Fyke; Dennis
McQuillin, Properties
Manager; Daniel
Jacobson; VP
Properties and
Corporate Services;
Lisa Van Cleave,
Facilities Planning
Supervisor; TDEC
Deputy Commissioner
Paul Sloan*



BlueCross BlueShield of Tennessee built its Leadership in Energy and Environmental Design corporate headquarters on Cameron Hill, consolidating 4,500 people from 10 locations throughout the city of Chattanooga while reducing its operating costs through environmental and design efficiency. Once certified, the 950,000-square-foot headquarters will be the largest LEED project in Tennessee. The campus provides employees a smoke-free environment, a 17,000-square-foot fitness center, employee pharmacy and clinic, an outdoor walking path and reflecting pools. Additionally, more than half of the 52-acre site is preserved as undisturbed forest area.

As part of its new campus, BCBST restored Boynton Park – the historic Civil War memorial, which now serves as a public park. Building design reduced energy costs by 20 percent or \$265,000 per year. Through low-flow fixtures, efficient irrigation systems and low-water use plants, approximately 20 million gallons of water are saved annually. Other innovations include a raised floor system, which lowers energy costs from 30 to 60 percent; high performance and task lighting controls, which can increase employee productivity; and seven percent of the parking spaces are designated for low-emission vehicles. The company will save approximately \$4 million a year in operating costs.









Exterior pond

Exterior walking path





Ball fitness class at on-site fitness center



Courtyard



T-Bridge

Visitor center



Exterior garden

Excellence in Energy Leadership

Nissan Americas



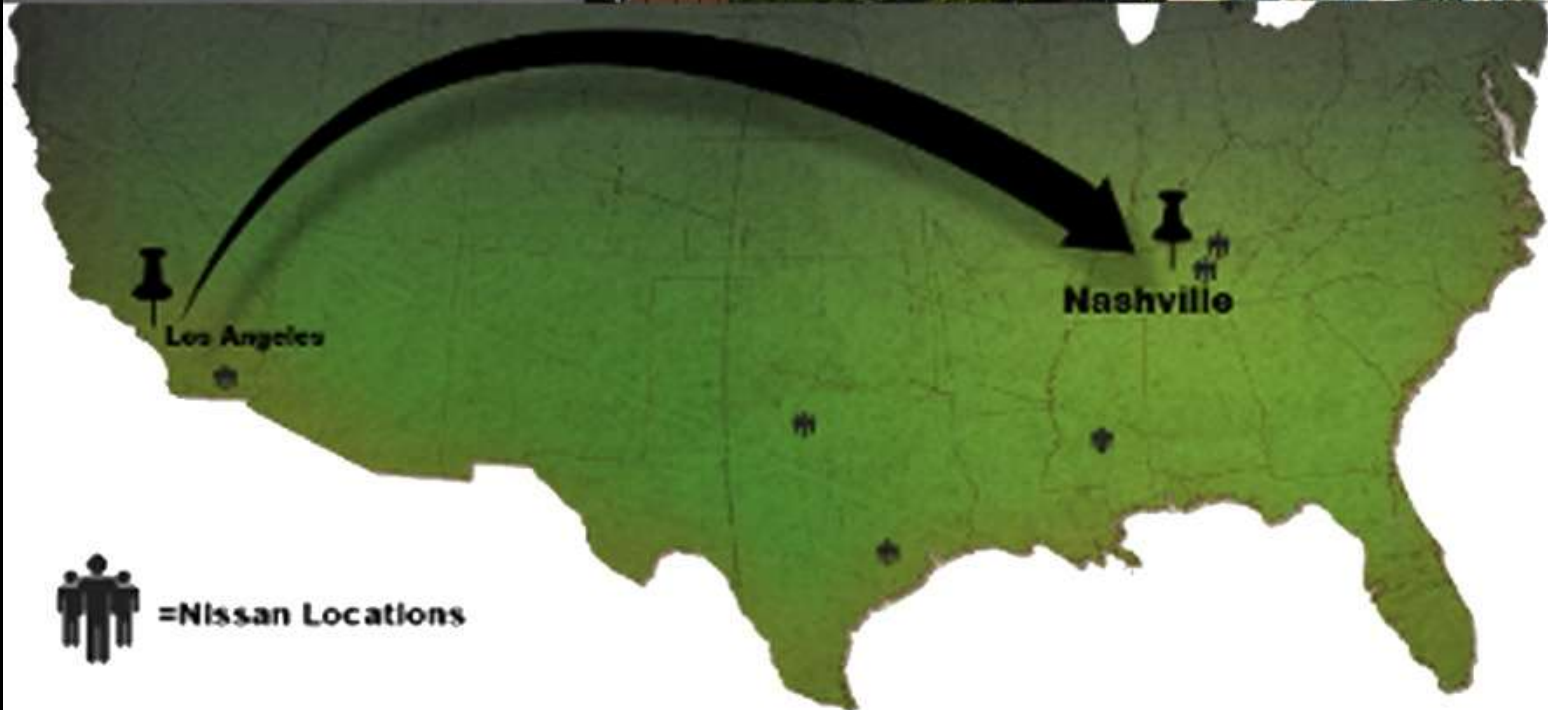
*(l-r) TDEC
Commissioner James
Fyke; Jeffrey W.
Kuhnenn, Design
Principal, Gresham
Smith and Partners;
John Harris, Facilities
and Environmental
Director, Nissan North
America; Rob
Traynham, Corporate
Services Director,
Nissan North America;
TDEC Deputy
Commissioner Paul
Sloan*



With an investment in excess of \$100 million dollars, Nissan North America's 460,000-square-foot corporate facility in Franklin includes a site design that minimizes energy consumption, maximizes open space, uses high-recycled materials and incorporates on-site renewable resources. Preserving large areas of open green space, the facility sits on a 50-acre site and has 2.5 acres of improved wetlands. Located between South Prong Creek and a tributary, the wetlands provide long-term protection and enhance local aquatic ecosystems, as both streams are listed on the state's impaired waters list, and provide a third tier of storm water protection and exceptionally clear runoff.

In addition to tracking and benchmarking their energy performance, Nissan developed a plan to reduce energy intensity across all operations. Electrical power use is continuously monitored at the Nissan North America facility to ensure they use only what is needed. By preserving green space, Nissan uses the site to naturally absorb storm water and to reduce the heat "island" effect typically caused by large areas of asphalt. Other efforts include the reduction of impervious pavement by 70 percent; a "green" roof covers the office tower and daylight harvesting. Overall, Nissan's energy efficient strategies include a 33-percent reduction in consumption, saving 1,600 tons of coal per year. Throughout construction, Nissan collected, separated and recycled 3.78 tons of steel, six tons of cardboard, 14 tons of wood and 325 tons of concrete construction debris.







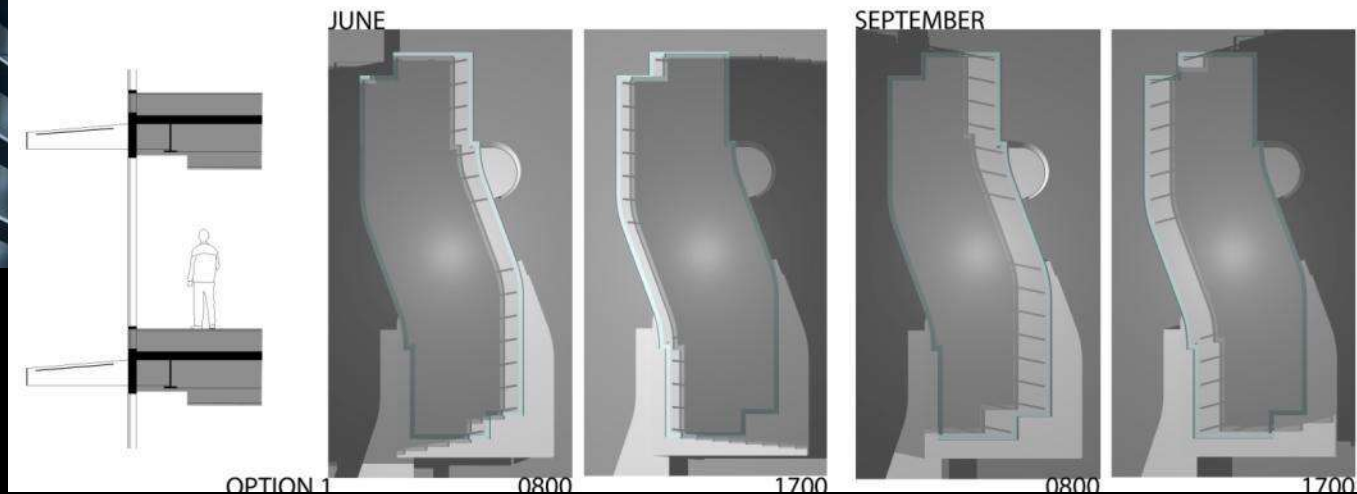
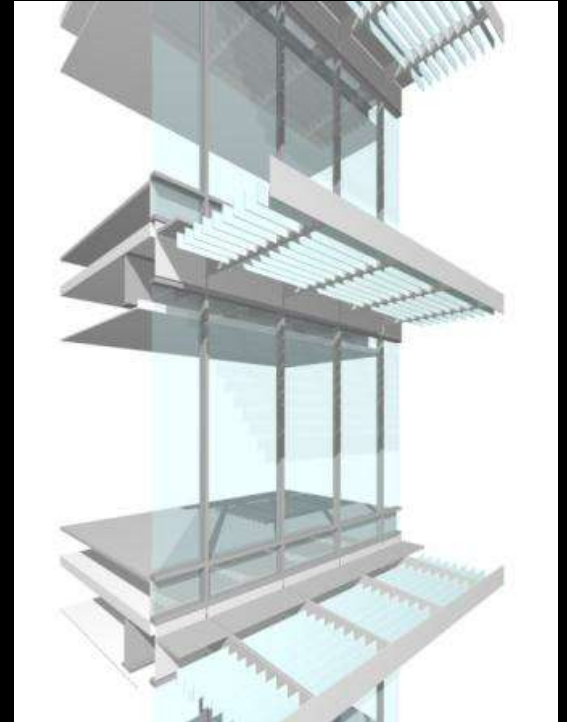
*Improved
2.5 acre
wetland
on-site*



Captured rainwater will save 5,000,000 gallons of potable water per year for irrigation.



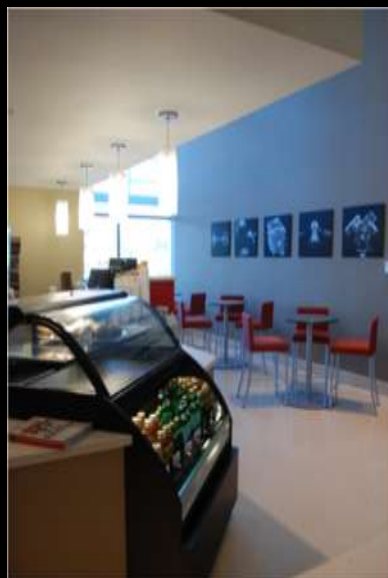
Sunshades





*Sophisticated
A/V equipment
integrated
throughout the
building allows
employees
from around
the world to
meet more
while travelling
less.*





Excellence in Environmental Education and Outreach

*The Water Quality Forum's
Rainy Day Brush Off*

*back row (l-r) TDEC
Commissioner James Fyke;
Ivan Harmon, Knox County
Commissioner; John Shubzda,
Knoxville Stormwater; Jason
Scott, Farragut Stormwater;
TDEC Deputy Commissioner
Paul Sloan. front row (l-r) Ruth
Anne Hanahan, TN Water
Resources Research Center;
Melinda Watson, TVA; Parci
Gibson, Knox County
Stormwater*



Created in 2008 by the Water Quality Forum of Knoxville, the Rainy Day Brush Off artistic rain barrel competition features actual works of art on 55-gallon rain barrels to help raise awareness about water conservation and water pollution. Engaging the regional visual arts community, the Rainy Day Brush Off produces a unique collection of barrels, while providing the community with an aesthetically compelling and easily accessible water conservation tool. Since its inception, the Rainy Day Brush Off has created 89 unique rain barrels produced by artists, school groups, 4-H clubs, design collectives and businesses. The painted barrels are displayed throughout Knox County and feature helpful information on the benefits of using a rain barrel and tips on reducing storm water pollution. Currently there are more than 2,000 functioning rain barrels throughout the Knoxville area.













*If you have seen this barrel
please call the local
authorities, it disappeared from
a local merchant in 2008.*





Excellence in Green Schools Higher Education

*Pellissippi State Community College
Campus Sustainability Initiatives*



*back row (l-r) TDEC
Commissioner James
Fyke; Brad Coburn,
Director of Industrial &
Contract Training; Ann
Kronk, Assistant Professor
of Biology; TDEC Deputy
Commissioner Paul Sloan.
front row (l-r) Mary
Denman, student; David
Walton, Director of
Facilities*



Pellissippi State Community College has engaged in a combination of sustainability initiatives, including new building design, green job education and student participation in recycling. Students, faculty and staff have developed cooperative, mutually beneficial efforts that increased sustainability in the operations of the college, offered new sustainability education programs to the community and trained 40 students – involving students directly in the process of sustainability within the campus environment.

Efforts include the expansion of the school's bicycle storage, the inclusion of shower/changing facilities for individuals riding their bicycles to campus, reserved parking near campus buildings for carpool vehicles, and charging stations in reserved parking spaces for alternative fuel vehicles. Other initiatives included a new building constructed to LEED standards, educational programs in photovoltaics and energy conservation, and campus student projects designed to maintain college-wide recycling efforts. By expanding recycling from 15 collection containers for aluminum to 70 single-stream collection containers, collections rose to approximately 350 pounds per week in 2009.







162



Number of 30 Gallon bags
of Trash Generated by
PSTCC Students, Faculty
and Staff
per day
while on campus =

162











Excellence in Green Schools K-12

University School of Nashville



*TDEC Commissioner
James Fyke; Kari
Jansen, 3rd Grade
Teacher; Mary Agee,
Middle School
Photography Teacher;
Cynthia Lee, Director of
Outdoor Education;
Steve Robins, Head of
the High School; Amy
Dortch, 6th Grade
Science Teacher; TDEC
Deputy Commissioner
Paul Sloan*



Illustrating their growing environmental commitment, The University School of Nashville involves students of all ages in “greening” its campus, studying environmental issues and conducting community environmental outreach. Beginning in kindergarten with the award-winning Young Naturalists Program, students become grounded in nature and develop an environmental stewardship ethic. This year, 6th graders studied deforestation and global warming and examined the concept of the “carbon footprint,” making a difference in offsetting their own carbon by planting 178 trees in the community. In addition, the Middle School photography class used their skills and love of nature to publish a field guide to the trees on the Edgehill campus.

The school’s previous field guide for the H.G. Hill property was used as a fundraising tool by the West Meade Conservancy and Friends of Warner Parks to raise \$10.4 million for acquisition of the old-growth forest property. This 324 acres will eventually become part of Warner Parks. The students also researched the annual quantities of styrofoam plates, cups, and cutlery that were costing the school \$11,200 and ending up in a Middle Tennessee landfill. Changing over to non-disposables and budgeting for a bigger, more energy efficient dishwasher – the school was able to reduce their waste.





*3rd graders
on the
Harpeth
River*









*Wetlands on the
Cumberland River*



8th grade photography students



Excellence in Greenways and Trails

City of Clarksville Greenway



*(l-r) TDEC Commissioner
James Fyke; Kevin Cowling,
Clarksville Parks and
Recreation Deputy Director;
Mark Tummons, Clarksville
Parks and Recreation
Director; Melissa Adkins;
Clarksville Parks and
Recreation Program
Director; Tonya Vaden,
Clarksville Parks and
Recreation Deputy Director;
TDEC Deputy Commissioner
Paul Sloan*



The city of Clarksville has added a 3.6-mile trail to its current greenways and trails system. This particular addition was constructed on a six-mile abandoned rail bed with an estimated cost of \$2.5 million for the project – but due to city leadership, local community support and the help of various city departments, the project only cost the city \$330,000. Materials and labor for the walking path were donated by local businesses and the majority of the land and right-of-way were donated by private citizens – further reducing the cost of the project. The addition of the greenway will help establish a buffer along the Red River and nearby streams, while providing a habitat for diverse plant and animal species.













John E. Piper
Mayor

POLLARD ROAD TRAILHEAD

OPEN DAWN TO DUSK

HELP PROTECT THE PARK
PLEASE FOLLOW THESE RULES:

1. STAY ON DESIGNATED TRAILS
2. KEEP TO THE RIGHT, PASS ON THE LEFT
3. KEEP PETS ON LEASHES
4. DO NOT REMOVE PLANTS OR FRESHWATER WILDLIFE
5. PUT TRASH IN RECYCLES

SAFETY IS OUR HIGHEST PRIORITY

- ENJOY THE GREENWAY WITH A FRIEND - USE THE BUZZY SYSTEM
- BICYCLISTS AND EQUESTRIANS MUST YIELD TO PEDESTRIANS AND
- SHARE RESPONSIBILITY WHEN PARKING
- EXIT IMMEDIATELY DURING HEAVY TRAFFIC
- LEAVE UNLOCKS AT HOME AND TAKE YOUR CAR KEYS WITH YOU

PROHIBITED

- DRUGS AND ALCOHOL
- FIREARMS AND HUNTING
- MOTOBIKES AND MOTOBIKES

IMPORTANT NUMBERS

GLASSBORO PARKS & RECREATION	951-686-7676
GLASSBORO POLICE	951-682-1011
EMERGENCY	911

**Zone
B**

→

**2.6
miles**

For more information, call the Glassboro Parks & Recreation Department at 951-686-7676. For more information, call the Glassboro Police Department at 951-682-1011. For more information, call the Glassboro Fire Department at 951-682-1011.





Excellence in Hazardous Waste Reduction

Tri State Distribution, Inc.



(l-r) TDEC Commissioner James Fyke; Lori Eads, Human Resource Manager; Garry Peterson; Plant Manager; Ken Fresh, Flexo Printing/Graphics Manager; TDEC Deputy Commissioner Paul Sloan



Established in 1992 in Spencer, TN as a distributor of prescription containers, Tri State Distribution began manufacturing & distributing its own prescription packaging products in Sparta, TN in 1998. Since then, Tri State's manufacturing campus has grown to nearly 350,000 square feet on 23 acres. Tri State utilizes a third-party consulting firm to semi-annually assess its operations for health, safety and environmental issues, and working with that firm monitors many avenues for waste reduction. Tri State introduced new methods to handle the items deposited into hazardous waste containers, improved the reclamation of paper and plastic resin waste, and began the utilization of a laundry service to launder rags used for clean up in production areas. Tri State's most important commitment to sustainability efforts involves its own products, where it has incorporated recycled materials into its newest product lines, which feature the use of the most easily and commonly recycled plastic resin in the country. Tri State also introduced a new patent pending method of working in partnership with its pharmacy customers to recycle consumer and pharmacy containers. All of these efforts resulted in Tri State increasing production in 2009 from 1,362,000 units to 7,110,000 units produced per pound of hazardous waste generated.

Recently, Tri State installed an oil/water separating system, which removes oil from the production machines' air compressor waste water. Tri State invested \$30,000 to install the oil/water separating system, which allows the water to be diverted to storm drains while the oil captured is disposed of as "special waste". This has eliminated up to 2500 gallons per week of oil/water mix being transported off site, saving money & eliminating the waste. Tri State continues to seek new ways to reduce or eliminate waste, while pioneering new avenues for its customers to use in recycling containers at the retail level.





*Oil/water filtration
system*

Oil/Water separator tank



Non-hazardous solid waste storage





*Hazardous waste
storage area*



*Plate cleaning process
produces hazardous waste*

Excellence in Natural Heritage Conservation

*Friends of Warner Parks
Preservation of The Hill Forest*



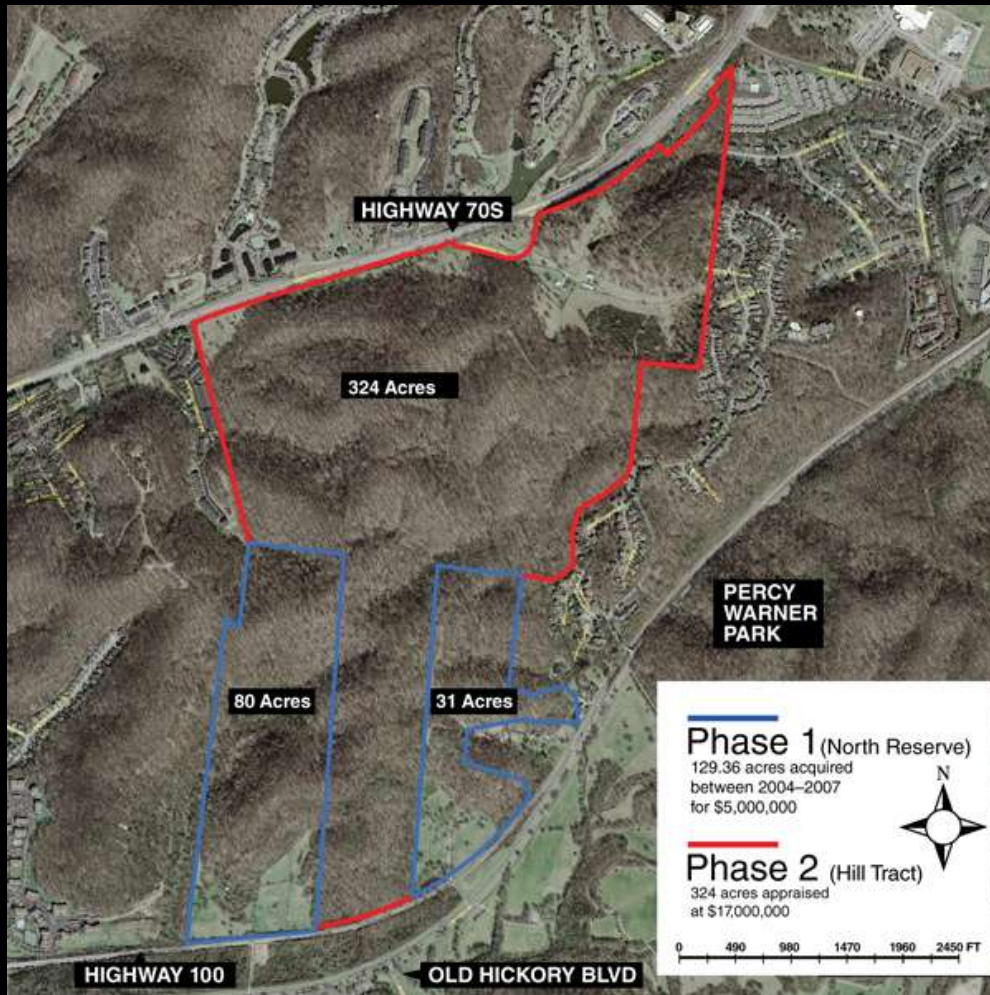
*back row (l-r) TDEC
Commissioner James Fyke;
Bob Parrish, Natural
Resources Program
Superintendent, Tommy
Lynch, Metro Nashville Parks
and Recreation Director;
TDEC Deputy Commissioner
Paul Sloan. front row (l-r)
Vera Vollbrecht, Warner Park
Nature Center Manager;
Julia Landstreet, Friends of
Warner Parks President;
Warner Bass, Friends of
Warner Parks Capital
Campaign Chairman*



Made possible by the Friends of Warner Parks, the "Save Our Ancient Forest" project includes the acquisition and preservation of a 324-acre natural area with approximately 225 acres of old-growth forest in Metropolitan Nashville / Davidson County. The Metropolitan Nashville Board of Parks and Recreation approved the acquisition as an addition to the 2,684-acre Warner Parks system. This project will have a significant positive impact on Nashville's environmental, educational, recreational and economic goals.

Another innovative component of the project is the partnership with area high schools and universities, in addition to the opportunities for a living laboratory in the old-growth forest. Inventories of the flora and fauna and other research projects will reveal information and help influence resource management priorities. An initial birding survey of the property identified three bird species of High Conservation Concern to this region. The "Save Our Ancient Forest" project preserves and protects Tennessee's natural landscape through the acquisition of one of the largest remaining stands of old-growth forest in the United States – ensuring its gentle use and enjoyment today and for future generations.







Photos by: Byron Jorjorian



Photos by: Byron Jorjorian



Photos by: Byron Jorjorian



Photos by: Byron Jorjorian



Photos by: Byron Jorjorian

Excellence in Parks and Recreation

A Sustainable Bonnaroo



(l-r) TDEC Commissioner James Fyke; Ross Simmons, Manchester Police Chief; Laura Sohn, Bonnaroo Sustainability Coordinator; David Pennington; Coffee County Mayor; Betty Superstein; Manchester Mayor; TDEC Deputy Commissioner Paul Sloan



Bonnaroo is a four-day music and arts festival in Manchester, which attracts 80,000 people each year. In 2009, Bonnaroo addressed product consumption, education and outreach, waste management and energy consumption in a comprehensive plan to reduce waste produced for this recreational event.

Thirty-three percent of the waste produced by the festival (by weight) was diverted from the landfill. This included 81.49 tons of commingled recycling, 19.07 tons of scrap metal, 27.18 tons of cardboard, three tons of cooking oil and 30 tons of compost – totaling nearly 161 tons diverted from the landfill. This waste diversion, combined with education and outreach promoting sustainability, locally sourced products, on-site composting and environmentally friendly purchasing, lead to the highest amount of materials recycled in the history of the festival. New in 2009, Bonnaroo provided re-usable water bottles for attendees to refill with free filtered water from on-site wells. Bonnaroo also retired 900 metric tons of carbon dioxide, accounting for and offsetting all emissions generated from the festival.





*Separation of recycling at
campsites*







*Trading
recyclables for
prizes*



The Solar Stage



*Naturally insulated
recording studio*

*Post office on site
made of mud, old
tires, and
recycled tin*



Excellence in Pollution Prevention

Chattanooga Green Lodging Certification Program



*back row (l-r) TDEC
Commissioner James
Fyke; Shannon Bowles,
Tennessee Hospitality
Association President;
Lee Curtis; TN Tourist
Development; Andrea
Anderson, Chattanooga
Hospitality Association
President; TDEC Deputy
Commissioner Paul Sloan.
front row (l-r) Dobbin
Callahan; President Skye
Con; Patricia Gray; TN
Tourist Development; Tom
Cupo, The Chattanooga
General Manager*



The Chattanooga Green Lodging program has been recognized as a national model for sustainable tourism planning and is internationally recognized by Green Globe. An initiative to promote and support Chattanooga's vision for a sustainable city, the Green Lodging program encourages hotels, bed and breakfasts and other lodging facilities and restaurants to be aware of their impact on the environment and to take steps to reduce their carbon footprint, while enhancing the overall sustainability of their operations. The program provides guidance and resources that will greatly reduce impact by using proven techniques to reduce waste and, in many circumstances, save money.

Once certified properties are encouraged to take an active role, including working with the city's Chattanooga Green effort to increase awareness with businesses and in the community, reduce waste from operations; promote natural resource conservation and efficiency measures, as well as alternative energy deployment. The Chattanooga Green Lodging program represents a uniquely cooperative effort transcending public and private lines, providing a meaningful but achievable certification program at an affordable cost. The net result of the program can be seen at the business level as companies become more energy efficient and operating costs are reduced.





The Chattanooga









Global Soap Project



Excellence in Solid Waste Reduction

Knoxville Medication Collection Program



(l-r) TDEC Commissioner James Fyke; Mark Penland, TDEC Environmental Coordinator; Robert Solomon, Knoxville Police Department; Craig McNew; Knoxville Police Department; John Homa, Knoxville Solid Waste; Al Iannacone; Knox County Health Department; John Duncan; Knox County Health Department; Stephanie Yokley; University of Tennessee College of Pharmacy; TDEC Deputy Commissioner Paul Sloan



A task force including the Knoxville Police Department, the city of Knoxville, city and county Solid Waste, Knox County Health Department, Department of Environment and Conservation, University of Tennessee's Academy of Student Pharmacists, Knox County Sheriff's Office, the Hallsdale-Powell Utility District, Knoxville Utility Board, Volunteer Rescue Squad and Earth Fare was created to develop a solution to medication disposal problems.

Since its inception, the program has collected more than 1,000 pounds of medication from over 600 participants at various collection events and through permanent 24-hour medication drop-off boxes located at law enforcement facilities. Also collected were more than 500 pounds of mercury thermometers and 474 pounds of medication packaging. Some unique characteristics of this program include collection of over-the-counter pharmaceuticals and prescription medications, focusing on the environmental concerns of its proper disposal, as well as public safety – helping keep medication out of waters and off the streets. Today, Knox County's efforts are being mirrored by nine separate entities across the state.











Weighing

Labeling





Secured transport





Excellence in Sustainable Transportation Solutions

Tennessee Department of Transportation











*As of March 2010, there are
33 E85 pumps and 33 B20 pumps*



*Rehabilitation of the historic Shelby
Street Bridge*



Robert Sparks Walker Lifetime Achievement Award

Jean “Jeanie” Nelson



(l-r) TDEC Commissioner James Fyke; Jean Nelson, Land Trust of Tennessee President; TDEC Deputy Commissioner Paul Sloan





Tennessee Tobacco Farmers
Certifying Board
Ellington Agricultural Center
Nashville, TN

1234

Date May 13, 2009

Pay to the Order of **The Land Trust for Tennessee** \$ **165,700**
One Hundred Sixty-Five Thousand Seven Hundred and 00/100 Dollars



Farmland Preservation

Phil Bucken



Jeanie Nelson, Governor Bredesen and 11 partner agencies sign the Farmland Legacy Partnership MOA in early 2010





Photos by Nancy Rhoda



***Protected by The Land
Trust for Tennessee***



Photos by Nancy Rhoda



*Protected by The Land
Trust for Tennessee*



Photos by Nancy Rhoda

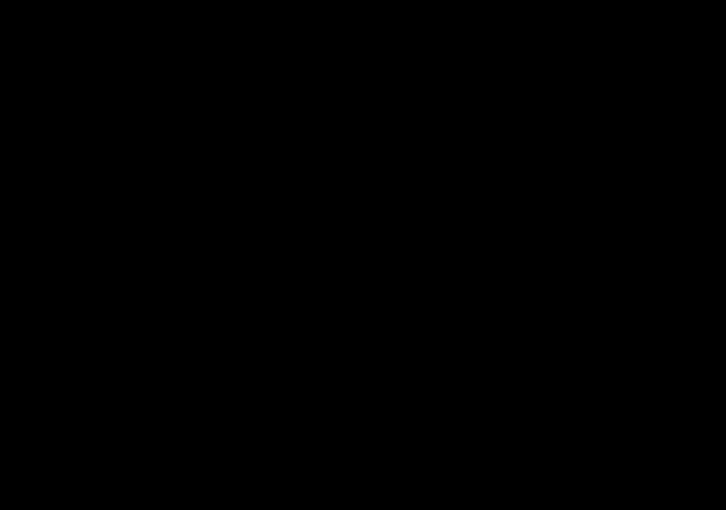


*Protected by The Land
Trust for Tennessee*



















***Commissioner's Award for
Exceptional Commitment and Public
Service***

Paul L. Sloan

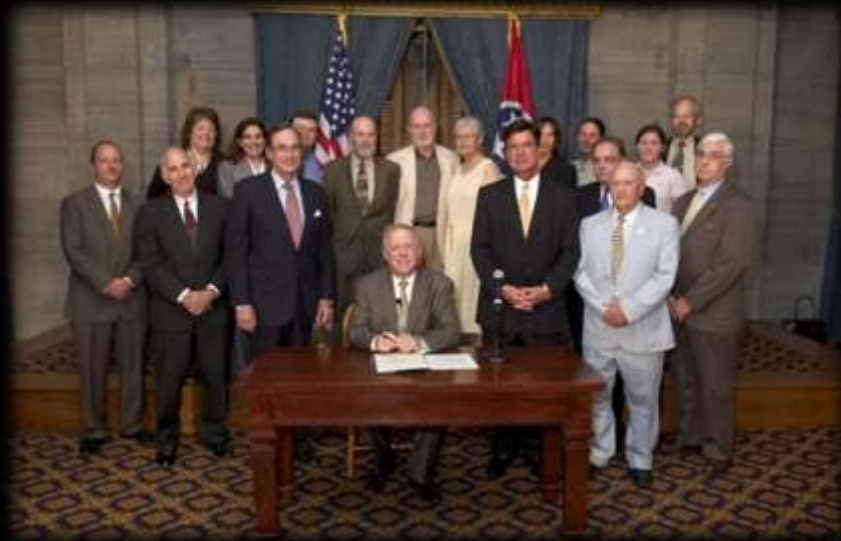




















24th Governor's Environmental Stewardship Awards

Class of 2010

